# Refine Search

## Search Results -

| Terms | Documents |
|---|---|
| L1 and classif$8 and rule$2 and first near (classifier or elements) and inducer | 1 |

**Database:**
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

**Search:** L2

[Refine Search]

[Recall Text] [Clear] [Interrupt]

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## Search History

**DATE:  Monday, June 20, 2005** Printable Copy   Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR* | | | |
| L2 | L1 and classif$8 and rule$2 and first near (classifier or elements) and inducer | 1 | L2 |
| L1 | 706/12-13.ccls. | 518 | L1 |

END OF SEARCH HISTORY

# Hit List

## Search Results - Record(s) 1 through 1 of 1 returned.

☐  1.  Document ID:  US 6647379 B2

L2: Entry 1 of 1                    File: USPT                    Nov 11, 2003

US-PAT-NO: 6647379
DOCUMENT-IDENTIFIER: US 6647379 B2
** See image for **Certificate of Correction** **

TITLE: Method and apparatus for interpreting information

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Howard; Gary | Sawbridgeworth | | | GB |
| Barson; Paul Colin | Hemel Hempstead | | | GB |
| Field; Simon | Harpenden | | | GB |
| Hobson; Philip William | Bishops Stortford | | | GB |

US-CL-CURRENT: 706/25; 706/12, 706/13

| Terms | Documents |
|---|---|
| L1 and classif$8 and rule$2 and first near (classifier or elements) and inducer | 1 |

**Display Format:** [-]    Change Format

# Refine Search

### Search Results -

| Terms | Documents |
|-------|-----------|
| L1 and classif$8 and rule$2 and first near (classifier or elements) | 11 |

**Database:**
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

**Search:**
L5

[Refine Search]
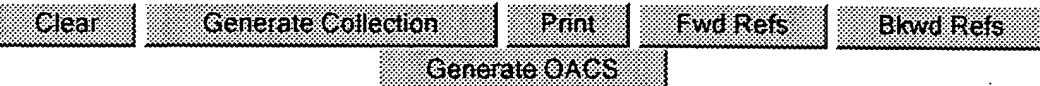
[Recall Text ⬍]   [Clear]   [Interrupt]

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### Search History

**DATE:** **Monday, June 20, 2005**   Printable Copy   Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|------|-------|-----------|----------|
| *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR* | | | |
| L5 | L1 and classif$8 and rule$2 and first near (classifier or elements) | 11 | L5 |
| L4 | L3 and classif$8 and rule$2 and first near (classifier or elements) and inducer | 0 | L4 |
| L3 | 706.25.ccls. | 0 | L3 |
| L2 | L1 and classif$8 and rule$2 and first near (classifier or elements) and inducer | 1 | L2 |
| L1 | 706/12-13.ccls. | 518 | L1 |

END OF SEARCH HISTORY

# Hit List

**Search Results - Record(s) 1 through 11 of 11 returned.**

☐  1.  Document ID: US 20020103775 A1

L5: Entry 1 of 11                    File: PGPB                    Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020103775
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020103775 A1

TITLE: Method for learning and combining global and local regularities for information extraction and classification

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------|------|-------|---------|---------|
| Quass, Dallan W. | Elk Ridge | UT | US | |
| Mitchell, Tom M. | Pittsburgh | PA | US | |
| McCallum, Andrew K. | Pittsburgh | PA | US | |
| Cohen, William | Pittsburgh | PA | US | |

US-CL-CURRENT: 706/12; 706/14, 707/5, 707/6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐  2.  Document ID: US 6892189 B2

L5: Entry 2 of 11                    File: USPT                    May 10, 2005

US-PAT-NO: 6892189
DOCUMENT-IDENTIFIER: US 6892189 B2

TITLE: Method for learning and combining global and local regularities for information extraction and classification

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Quass; Dallan W. | Elk Ridge | UT | | |
| Mitchell; Tom M. | Pittsburgh | PA | | |
| McCallum; Andrew K. | Pittsburgh | PA | | |
| Cohen; William | Pittsburgh | PA | | |

US-CL-CURRENT: <u>706</u>/<u>12</u>; <u>701</u>/<u>1</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D |

☐ 3.   Document ID: US 6772149 B1

L5: Entry 3 of 11                          File: USPT                          Aug 3, 2004

US-PAT-NO: 6772149
DOCUMENT-IDENTIFIER: US 6772149 B1

TITLE: System and method for identifying facts and legal discussion in court case
law documents

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Morelock; John T. | Beavercreek | OH | | |
| Wiltshire, Jr.; James S. | Springboro | OH | | |
| Ahmed; Salahuddin | Miamisburg | OH | | |
| Humphrey; Timothy Lee | Kettering | OH | | |
| Lu; Xin Allan | Springboro | OH | | |

US-CL-CURRENT: <u>707</u>/<u>6</u>; <u>704</u>/<u>1</u>, <u>704</u>/<u>9</u>, <u>706</u>/<u>12</u>, <u>706</u>/<u>16</u>, <u>706</u>/<u>45</u>, <u>707</u>/<u>7</u>, <u>715</u>/<u>500</u>,
<u>715</u>/<u>531</u>, <u>715</u>/<u>535</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D |

☐ 4.   Document ID: US 6651044 B1

L5: Entry 4 of 11                          File: USPT                          Nov 18, 2003

US-PAT-NO: 6651044
DOCUMENT-IDENTIFIER: US 6651044 B1

TITLE: Intelligent sociable computer systems

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Stoneman; Martin L. | Phoenix | AZ | 85012 | |

US-CL-CURRENT: <u>706</u>/<u>10</u>; <u>706</u>/<u>11</u>, <u>706</u>/<u>12</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D |

☐  5.   Document ID:  US 6647379 B2

L5: Entry 5 of 11                              File: USPT                         Nov 11, 2003

US-PAT-NO: 6647379
DOCUMENT-IDENTIFIER: US 6647379 B2
** See image for Certificate of Correction **

TITLE: Method and apparatus for interpreting information

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Howard; Gary | Sawbridgeworth | | | GB |
| Barson; Paul Colin | Hemel Hempstead | | | GB |
| Field; Simon | Harpenden | | | GB |
| Hobson; Philip William | Bishops Stortford | | | GB |

US-CL-CURRENT: 706/25; 706/12, 706/13

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D: |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐  6.   Document ID:  US 6336107 B1

L5: Entry 6 of 11                              File: USPT                         Jan 1, 2002

US-PAT-NO: 6336107
DOCUMENT-IDENTIFIER: US 6336107 B1

TITLE: Method and system of automatic arrangement of composing elements

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Uchida; Tomohiro | Kawasaki | | | JP |
| Oka; Natsuki | Tokyo | | | JP |
| Yoshimura; Hiroyuki | Ashiya | | | JP |

US-CL-CURRENT: 706/13; 706/12

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D: |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐  7.   Document ID:  US 5671333 A

L5: Entry 7 of 11                              File: USPT                         Sep 23, 1997

US-PAT-NO: 5671333
DOCUMENT-IDENTIFIER: US 5671333 A

TITLE: Training apparatus and method

DATE-ISSUED: September 23, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Catlett; Jason A. | Green Brook | NJ | | |
| Gale; William Arthur | Maplewood | NJ | | |
| Lewis; David Dolan | Summit | NJ | | |

US-CL-CURRENT: 706/12

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

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☐  8.  Document ID: US 5438644 A

L5: Entry 8 of 11                    File: USPT                    Aug 1, 1995

US-PAT-NO: 5438644
DOCUMENT-IDENTIFIER: US 5438644 A

TITLE: Translation of a neural network into a rule-based expert system

DATE-ISSUED: August 1, 1995

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Fu; Li M. | Gainesville | FL | | |

US-CL-CURRENT: 706/12; 706/25, 706/45

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

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☐  9.  Document ID: US 5396580 A

L5: Entry 9 of 11                    File: USPT                    Mar 7, 1995

US-PAT-NO: 5396580
DOCUMENT-IDENTIFIER: US 5396580 A

TITLE: Translation of a neural network into a rule-based expert system

DATE-ISSUED: March 7, 1995

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Fu; Li M. | Gainesville | FL | | |

US-CL-CURRENT: 706/12; 706/25, 706/45

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

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☐  10.   Document ID:  US 4881178 A

L5: Entry 10 of 11                          File: USPT                    Nov 14, 1989

US-PAT-NO: 4881178
DOCUMENT-IDENTIFIER: US 4881178 A

TITLE: Method of controlling a <u>classifier</u> system

DATE-ISSUED: November 14, 1989

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Holland; John H. | Ann Arbor | MI | | |
| Burks; Arthur W. | Ann Arbor | MI | | |

US-CL-CURRENT: <u>706/12</u>; <u>706/45</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

---

☐  11.   Document ID:  US 4697242 A

L5: Entry 11 of 11                          File: USPT                    Sep 29, 1987

US-PAT-NO: 4697242
DOCUMENT-IDENTIFIER: US 4697242 A

TITLE: Adaptive computing system capable of learning and discovery

DATE-ISSUED: September 29, 1987

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Holland; John H. | Ann Arbor | MI | 48103 | |
| Burks; Arthur W. | Ann Arbor | MI | 48105 | |

US-CL-CURRENT: <u>706/13</u>; <u>382/155</u>, <u>706/62</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

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| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

| Terms | Documents |
|-------|-----------|
| L1 and classif$8 and rule$2 and first near (classifier or elements) | 11 |

**Display Format**: |‾‾‾‾‾‾| [ Change Format ]

Previous Page        Next Page        Go to Doc#

# Refine Search

## Search Results -

| Terms | Documents |
|---|---|
| L3 and classif$8 and rule$2 and first near (classifier or elements) | 0 |

**Database:**
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

**Search:** L6

[ Refine Search ]

[ Recall Text ⇕ ] [ Clear ] [ Interrupt ]

## Search History

**DATE:** Monday, June 20, 2005    Printable Copy    Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR* | | | |
| L6 | L3 and classif$8 and rule$2 and first near (classifier or elements) | 0 | L6 |
| L5 | L1 and classif$8 and rule$2 and first near (classifier or elements) | 11 | L5 |
| L4 | L3 and classif$8 and rule$2 and first near (classifier or elements) and inducer | 0 | L4 |
| L3 | 706.25.ccls. | 0 | L3 |
| L2 | L1 and classif$8 and rule$2 and first near (classifier or elements) and inducer | 1 | L2 |
| L1 | 706/12-13.ccls. | 518 | L1 |

END OF SEARCH HISTORY

# Refine Search

### Search Results -

| Terms | Documents |
|-------|-----------|
| classif$8 and rule$2 and first near (classifier or elements) and inducer | 10 |

**Database:**
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
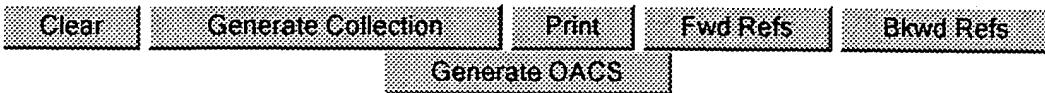IBM Technical Disclosure Bulletins

**Search:** L7

[Refine Search]

[Recall Text] [Clear] [Interrupt]

### Search History

**DATE: Monday, June 20, 2005** Printable Copy Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|------|-------|-----------|---------------------|
| *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR* | | | |
| L7 | classif$8 and rule$2 and first near (classifier or elements) and inducer | 10 | L7 |
| L6 | L3 and classif$8 and rule$2 and first near (classifier or elements) | 0 | L6 |
| L5 | L1 and classif$8 and rule$2 and first near (classifier or elements) | 11 | L5 |
| L4 | L3 and classif$8 and rule$2 and first near (classifier or elements) and inducer | 0 | L4 |
| L3 | 706.25.ccls. | 0 | L3 |
| L2 | L1 and classif$8 and rule$2 and first near (classifier or elements) and inducer | 1 | L2 |
| L1 | 706/12-13.ccls. | 518 | L1 |

END OF SEARCH HISTORY

# Hit List

**Search Results** - Record(s) 1 through 10 of 10 returned.

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☐  1.   Document ID:  US 20050124010 A1

L7: Entry 1 of 10                          File: PGPB                          Jun 9, 2005

PGPUB-DOCUMENT-NUMBER: 20050124010
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050124010 A1

TITLE: Whole cell engineering by mutagenizing a substantial portion of a starting genome combining mutations and optionally repeating

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------|------|-------|---------|---------|
| Short, Jay M | Rancho Santa Fe | CA | US | |
| Fu, Pengcheng | Lowrey Avenue | HI | US | |
| Wei, Jing | San Diego | CA | US | |
| Levin, Michael | San Diego | CA | US | |
| Latterich, Martin | Montellano Terrace, San Diego | CA | US | |

US-CL-CURRENT: 435/7.23; 702/19

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

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☐  2.   Document ID:  US 20050064477 A1

L7: Entry 2 of 10                          File: PGPB                          Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050064477
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050064477 A1

TITLE: Methods and compositions for interaction trap assays

PUBLICATION-DATE: March 24, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------|------|-------|---------|---------|
| Joung, J. Keith | Winchester | MA | US | |
| Miller, Jeffrey | Cambridge | MA | US | |
| Pabo, Carl O. | Newton | MA | US | |

US-CL-CURRENT: <u>435/6</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

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☐ 3.  Document ID: US 20040146931 A1

L7: Entry 3 of 10                          File: PGPB                          Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040146931
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040146931 A1

TITLE: Methods and compositions for interaction trap assays

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------|------|-------|---------|---------|
| Joung, J. Keith | Winchester | MA | US | |
| Miller, Jeffrey | Cambridge | MA | US | |
| Pabo, Carl O. | Newton | MA | US | |

US-CL-CURRENT: <u>435/6</u>; <u>435/252.3</u>, <u>435/320.1</u>, <u>435/471</u>, <u>435/69.1</u>, <u>435/7.32</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

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☐ 4.  Document ID: US 20040093316 A1

L7: Entry 4 of 10                          File: PGPB                          May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040093316
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040093316 A1

TITLE: Method and apparatus for interpreting information

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------|------|-------|---------|---------|
| Howard, Gary | Sawbridgeworth | | GB | |
| Barson, Paul Colin | Bishops Stortford | | GB | |
| Field, Simon | Harpenden | | GB | |
| Hobson, Philip William | Bishops Stortford | | GB | |

US-CL-CURRENT: <u>706/25</u>; <u>706/20</u>, <u>706/47</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐   5.   Document ID:  US 20040077090 A1

L7: Entry 5 of 10                         File: PGPB                       Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040077090
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040077090 A1

TITLE: Whole cell engineering by mutagenizing a substantial portion of a starting
genome, combining mutations, and optionally repeating

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------|------|-------|---------|---------|
| Short, Jay M. | Rancho Santa Fe | CA | US | |

US-CL-CURRENT: 435/471; 435/252.3, 435/254.2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐   6.   Document ID:  US 20040064464 A1

L7: Entry 6 of 10                         File: PGPB                       Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040064464
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040064464 A1

TITLE: Hierarchical categorization method and system with automatic local selection
of classifiers

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------|------|-------|---------|---------|
| Forman, George Henry | Port Orchard | WA | US | |
| Suermondt, Henri Jacques | Sunnyvale | CA | US | |

US-CL-CURRENT: 707/100

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐   7.   Document ID:  US 20030044787 A1

L7: Entry 7 of 10                         File: PGPB                       Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044787
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030044787 A1

TITLE: Methods and compositions for interaction trap assays

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------|------|-------|---------|---------|
| Joung, J. Keith | Winchester | MA | US | |
| Miller, Jeffrey | Cambridge | MA | US | |
| Pabo, Carl O. | Newton | MA | US | |

US-CL-CURRENT: <u>435/6</u>; <u>536/23.7</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

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☐  8.   Document ID: US 20020119498 A1

L7: Entry 8 of 10                          File: PGPB                        Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119498
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020119498 A1

TITLE: Methods and compositions for interaction trap assays

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------|------|-------|---------|---------|
| Joung, J. Keith | Winchester | MA | US | |
| Miller, Jeffrey | Cambridge | MA | US | |
| Pabo, Carl O. | Newton | MA | US | |

US-CL-CURRENT: <u>435/7.2</u>; <u>435/455</u>, <u>435/6</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

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☐  9.   Document ID: US 6716625 B1

L7: Entry 9 of 10                          File: USPT                        Apr 6, 2004

US-PAT-NO: 6716625
DOCUMENT-IDENTIFIER: US 6716625 B1

TITLE: Histidine kinases of Aspergillus and other fungal species, related compositions, and methods of use

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|

Selitrennikoff; Claude         Evergreen        CO        80267
Pott; Greg                     Westminster      CO        80031

US-CL-CURRENT: 435/325; 435/183, 435/194, 435/252.1, 435/252.3, 435/320.1, 435/350,
435/410

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

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☐   10.  Document ID:  US 6647379 B2

L7: Entry 10 of 10                      File: USPT                 Nov 11, 2003

US-PAT-NO: 6647379
DOCUMENT-IDENTIFIER: US 6647379 B2
** See image for Certificate of Correction **

TITLE: Method and apparatus for interpreting information

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------|------|-------|----------|---------|
| Howard; Gary | Sawbridgeworth | | | GB |
| Barson; Paul Colin | Hemel Hempstead | | | GB |
| Field; Simon | Harpenden | | | GB |
| Hobson; Philip William | Bishops Stortford | | | GB |

US-CL-CURRENT: 706/25; 706/12, 706/13

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

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| Terms | Documents |
|-------|-----------|
| classif$8 and rule$2 and first near (classifier or elements) and inducer | 10 |

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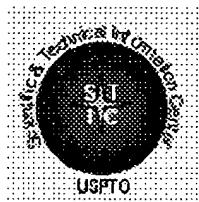
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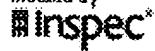name Lockett and the first initial S.

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Howard, G.E.; Dai, J.; Chow, Y.L.; Stubbs, M.G.;
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**Two-stage complex image method for a thin-thick dielectric layer combination in substrates**

Yang, J.J.; Howard, G.E.; Chow, Y.L.;
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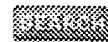**Knowledge discovery and data mining**
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1   David W. Aha , Dennis Kibler , Marc K. Albert, Instance-Based Learning Algorithms, Machine Learning, v.6 n.1, p.37-66, Jan. 1991

2   Stephen D. Bay, Combining Nearest Neighbor Classifiers Through Multiple Feature Subsets, Proceedings of the Fifteenth International Conference on Machine Learning, p.37-45, July 24-27, 1998

3   Christopher M. Bishop, Neural networks for pattern recognition, Oxford University Press, Oxford, UK, 1996

4   C. Blake, E. Keogh, and C. J. Merz. UCI repository of machine learning databases. Dept. of Information and Computer Science, University of California at Irvine, CA, 1999. http://www.ics.uci.edu/- -~mlearn/MLP~epository. html.

5   Leo Breiman, Bagging predictors, Machine Learning, v.24 n.2, p.123-140, Aug. 1996

6   L. Breiman. Pasting bites together for prediction in large data sets and on-line. Technical report, Statistics Dept., University of California at Berkeley, CA, 1996.

7   L. Breiman. Out-of-bag estimation. Technical report, Statistics Dept., University of California at Berkeley, CA, 1998.

8   L. Breiman, J. H. Friedman, R. A. Olshen, and C. J. Stone. Classification and Regression Trees. Wadsworth, Belmont, CA, 1984.

9   P. Chan and S. Stolfo. Toward scalable learning with non-uniform class and cost distributions. Proc. J th Intl. Conf. on Knowledge Discovery and Data Mining, pp. 164-168, New York, NY, 1998.

10   P. Chan, S. Stolfo, and D. Wolpert, editors. Proc. AAAI-96 Wkshp. on Integrating Multiple Learned Models for Improving and Scaling Machine Learning Algorithms. AAAI Press, Portland, OR, 1996.

11   B. W. Dasarathy, editor. Nearest Neighbor (NN) Norms: NN Pattern Classification Techniques. IEEE Computer Society Press, Los Alamitos, CA, 1991.

12   P. Domingos. Linear-time rule induction. Proc. ~nd Intl. Conf. on Knowledge Discovery and Data Mining, pp. 96-101, Portland, OR, 1996.

13   Pedro Domingos, Knowledge Acquisition form Examples Vis Multiple Models, Proceedings of the Fourteenth International Conference on Machine Learning, p.98-106, July 08-12, 1997

14   P. Domingos. Why does bagging work? A Bayesian account and its implications. Proc. 3rd Intl. Conf. on Knowledge Discovery and Data Mining, pp. 155-158, Newport Beach, CA, 1997.

15   P. Domingos. How to get a free lunch: A simple cost model for machine learning applications. Proc. AAAi-98/ICML-98 Wkshp. on the Methodology of Applying Machine Learning, pp. 1-7, Madison, WI, 1998.

16   Pedro Domingos , Michael Pazzani, On the Optimality of the Simple Bayesian Classifier under Zero-One Loss, Machine Learning, v.29 n.2-3, p.103-130, Nov./Dec. 1997

17   R. O. Duda and P. E. Hart. Pattern Classification and Scene Analysis. Wiley, New York, NY, 1973.

18   Usama M. Fayyad , Gregory Piatetsky-Shapiro , Padhraic Smyth, From data mining to knowledge discovery: an overview, Advances in knowledge discovery and data mining, American Association for Artificial Intelligence, Menlo Park, CA, 1996

19   Y. Freund and R. E. Schapire. Experiments with a new boosting algorithm. Proc. 13th Intl. Conf. on Machine Learning, pp. 148-156, Bari, Italy, 1996.

20   R. S. Michalski. A theory and methodology of inductive learning. Artificial Intelligence, 20:111-161, 1983.

21   F. Provost and T. Fawcett. Analysis and visualization of classifier performance. Proc. 3rd Intl. Conf. on Knowledge Discovery and Data Mining, pp. 43-48, Newport Beach, CA, 1997.

22   Foster J. Provost , Tom Fawcett , Ron Kohavi, The Case against Accuracy Estimation for Comparing Induction Algorithms, Proceedings of the Fifteenth International Conference on Machine Learning, p.445-453, July 24-27, 1998

23  J. Ross Quinlan, C4.5: programs for machine learning, Morgan Kaufmann Publishers Inc., San Francisco, CA, 1993

24  Kai Ming Ting , Zijian Zheng, Boosting Trees for Cost-Sensitive Classifications, Proceedings of the 10th European Conference on Machine Learning, p.190-195, April 21-23, 1998

25  P. Turney. Cost-sensitive learning bibliography. Online bibliography, Institute for Information Technology of the National Research Council of Canada, Ottawa, Canada, 1997. http://- ai.iit.nrc, ca/bibliographies/cost-sensitive.html.

26  Zijian Zheng, Naive Bayesian Classifier Committees, Proceedings of the 10th European Conference on Machine Learning, p.196-207, April 21-23, 1998

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Nilesh Dalvi , Pedro Domingos , Mausam , Sumit Sanghai , Deepak Verma, Adversarial classification, Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining, August 22-25, 2004, Seattle, WA, USA

Charles X. Ling , Qiang Yang , Jianning Wang , Shichao Zhang, Decision trees with minimal costs, Twenty-first international conference on Machine learning, July 04-08, 2004, Banff, Alberta, Canada

Chris Drummond , Robert C. Holte, Explicitly representing expected cost: an alternative to ROC representation, Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining, p.198-207, August 20-23, 2000, Boston, Massachusetts, United States

Arno Siebes, From discovered knowledge to decisionmaking, Handbook of data mining and knowledge discovery, Oxford University Press, Inc., New York, NY, 2002

Wei Fan , Fang Chu , Haixun Wang , Philip S. Yu, Pruning and dynamic scheduling of cost-sensitive ensembles, Eighteenth national conference on Artificial intelligence, p.146-151, July 28-August 01, 2002, Edmonton, Alberta, Canada

Richard Nock, Complexity in the case against accuracy estimation, Theoretical Computer Science, v.301 n.1-3, p.143-165, 14 May 2003

Edwin Pednault , Naoki Abe , Bianca Zadrozny, Sequential cost-sensitive decision making with reinforcement learning, Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining, July 23-26, 2002, Edmonton, Alberta, Canada

Ronny Kohavi , J. Ross Quinlan, Data mining tasks and methods: Classification: decision-tree discovery, Handbook of data mining and knowledge discovery, Oxford University Press, Inc., New York, NY, 2002

José María Gómez Hidalgo, Evaluating cost-sensitive Unsolicited Bulk Email categorization, Proceedings of the 2002 ACM symposium on Applied computing, March 11-14, 2002, Madrid, Spain

Gustavo E. A. P. A. Batista , Ronaldo C. Prati , Maria Carolina Monard, A study of the behavior of several methods for balancing machine learning training data, ACM SIGKDD Explorations Newsletter, v.6 n.1, June 2004

Bianca Zadrozny , Charles Elkan, Learning and making decisions when costs and probabilities are both unknown, Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining, p.204-213, August 26-29, 2001, San Francisco, California

Naoki Abe , Bianca Zadrozny , John Langford, An iterative method for multi-class cost-sensitive learning, Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining, August 22-25, 2004, Seattle, WA, USA

Mohammed J. Zaki , Charu C. Aggarwal, XRules: an effective structural classifier for XML data, Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining, August 24-27, 2003, Washington, D.C.

Oren Etzioni , Rattapoom Tuchinda , Craig A. Knoblock , Alexander Yates, To buy or not to buy: mining airfare data to minimize ticket purchase price, Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining, August 24-27, 2003, Washington, D.C.

Wenke Lee , Wei Fan , Matthew Miller , Salvatore J. Stolfo , Erez Zadok, Toward cost-sensitive modeling for intrusion detection and response, Journal of Computer Security, v.10 n.1-2, p.5-22, 2002

Nitesh V. Chawla , Nathalie Japkowicz , Aleksander Kotcz, Editorial: special issue on learning from imbalanced data sets, ACM SIGKDD Explorations Newsletter, v.6 n.1, June 2004

Foster Provost , Tom Fawcett, Robust Classification for Imprecise Environments, Machine Learning, v.42 n.3, p.203-231, March 2001

Clifton Phua , Damminda Alahakoon , Vincent Lee, Minority report in fraud detection: classification of skewed data, ACM SIGKDD Explorations Newsletter, v.6 n.1, June 2004

Foster Provost , Pedro Domingos, Tree Induction for Probability-Based Ranking, Machine Learning, v.52 n.3, p.199-215, September 2003

M. A. Maloof , P. Langley , T. O. Binford , R. Nevatia , S. Sage, Improved Rooftop Detection in Aerial Images with Machine Learning, Machine Learning, v.53 n.1-2, p.157-191, October-November 2003

Pedro Domingos, Machine learning, Handbook of data mining and knowledge discovery, Oxford University Press, Inc., New York, NY, 2002

## ↑ INDEX TERMS

**Primary Classification:**
  **I.** Computing Methodologies
  ↳ **I.5** PATTERN RECOGNITION
    ↳ **I.5.2** Design Methodology
      ↳ **Subjects:** Classifier design and evaluation

**Additional Classification:**
  **H.** Information Systems
  ↳ **H.2** DATABASE MANAGEMENT
    ↳ **H.2.8** Database applications
      ↳ **Subjects:** Data mining

**General Terms:**

Algorithms, Design, Management, Measurement, Performance, Theory

↑ **Collaborative Colleagues:**

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